In [1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
df=pd.read_csv("/home/student/Desktop/Titanic1.csv")
df
```

Out[1]:

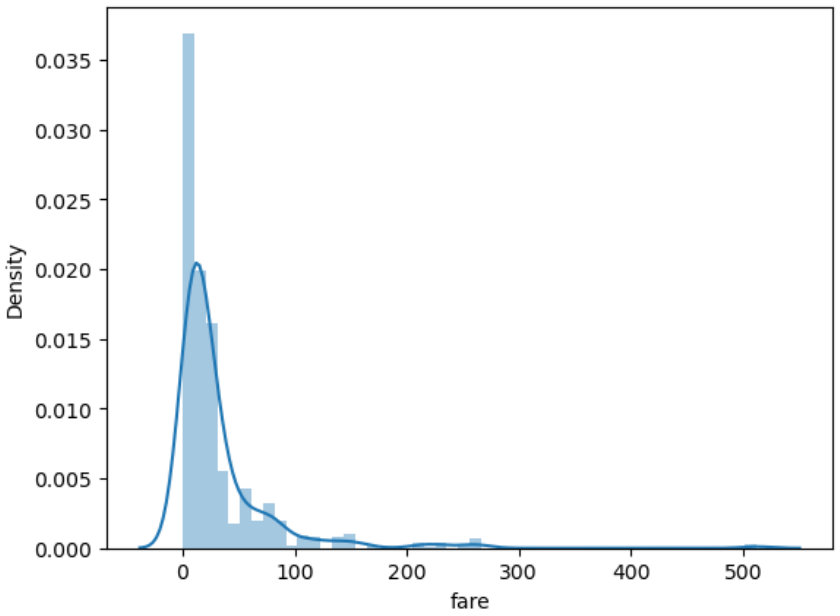
	sex	age	sibsp	parch	fare	embarked	class	who	alone	survived
0	male	22.0	1	0	7.2500	S	Third	man	False	0
1	female	38.0	1	0	71.2833	C	First	woman	False	1
2	female	26.0	0	0	7.9250	S	Third	woman	True	1
3	female	35.0	1	0	53.1000	S	First	woman	False	1
4	male	35.0	0	0	8.0500	S	Third	man	True	0
...	...	...	...	...	...	...	...	...	...	...
886	male	27.0	0	0	13.0000	S	Second	man	True	0
887	female	19.0	0	0	30.0000	S	First	woman	True	1
888	female	NaN	1	2	23.4500	S	Third	woman	False	0
889	male	26.0	0	0	30.0000	C	First	man	True	1
890	male	32.0	0	0	7.7500	Q	Third	man	True	0

891 rows × 10 columns

In [5]:
```
sns.distplot(df["fare"])
```

```
/tmp/ipykernel_4029/1050134132.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(df["fare"])
```

Out[5]:
```
<Axes: xlabel='fare', ylabel='Density'>
```

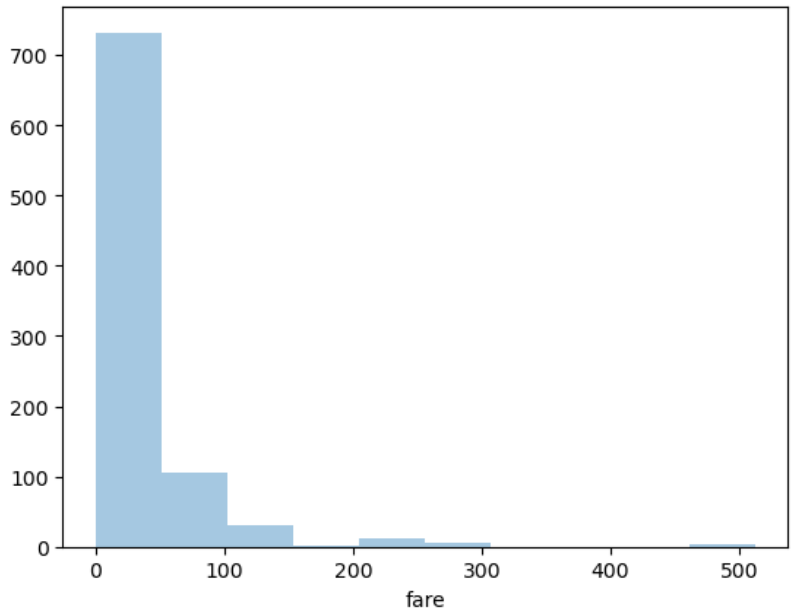


In [6]:
```
sns.distplot(df["fare"],kde=False,bins=10)
```

```
/tmp/ipykernel_4029/751185012.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
```

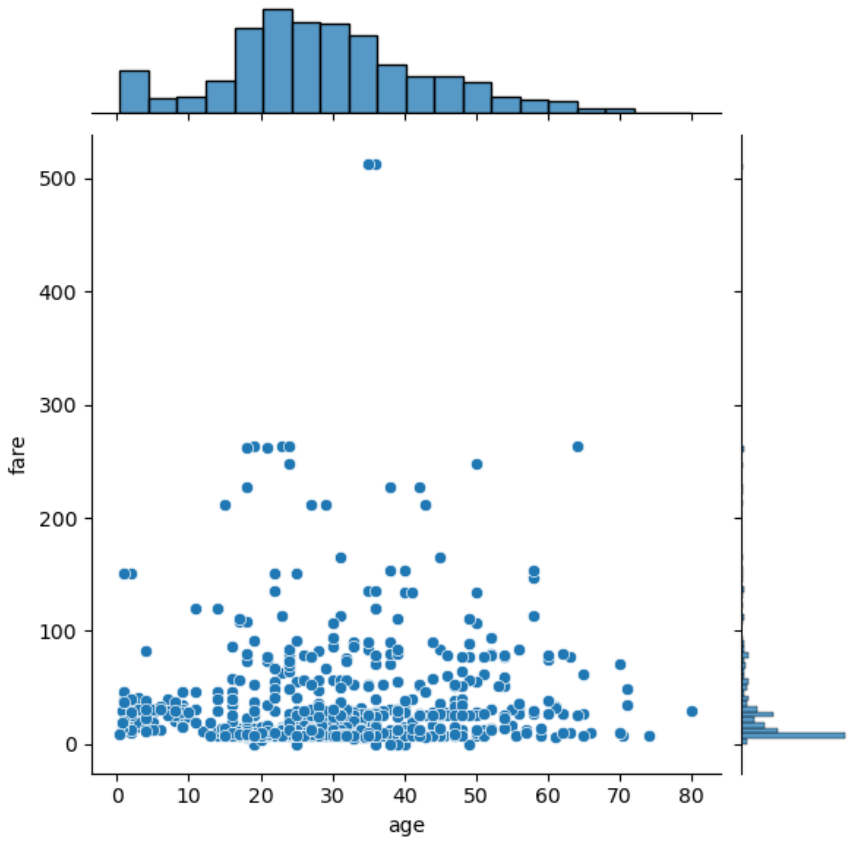
```
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(df["fare"],kde=False,bins=10)
```

Out[6]:
```
<Axes: xlabel='fare'>
```



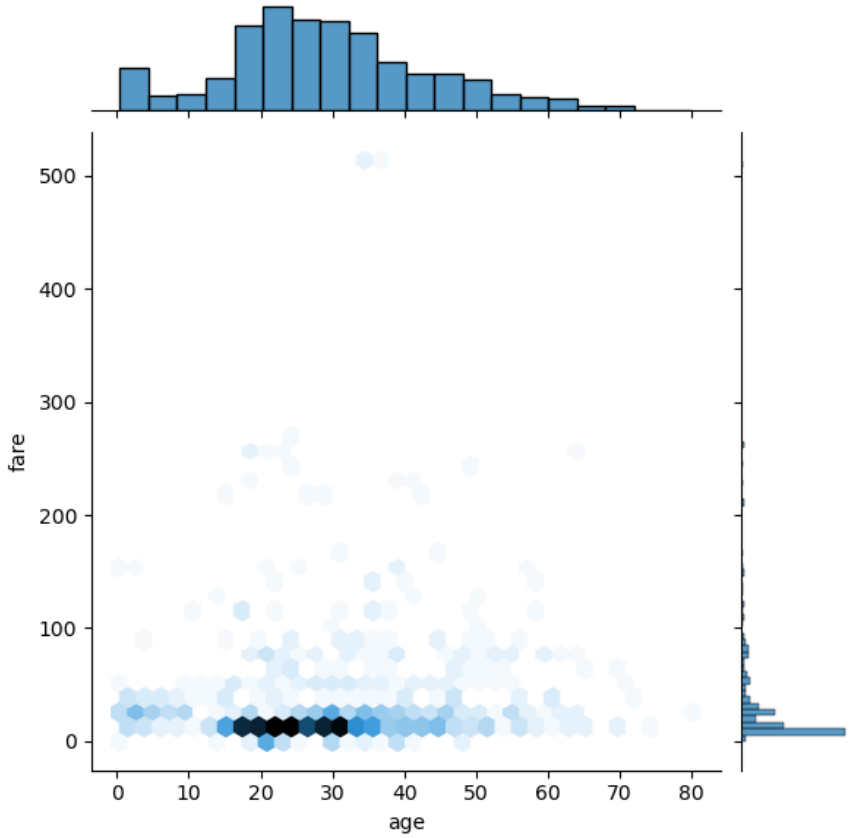
In [7]:
```
sns.jointplot(x="age",y="fare",data=df)
```

Out[7]:
```
<seaborn.axisgrid.JointGrid at 0x7f33c82ac820>
```



In [8]:
```
sns.jointplot(x="age",y="fare",data=df,kind='hex')
```

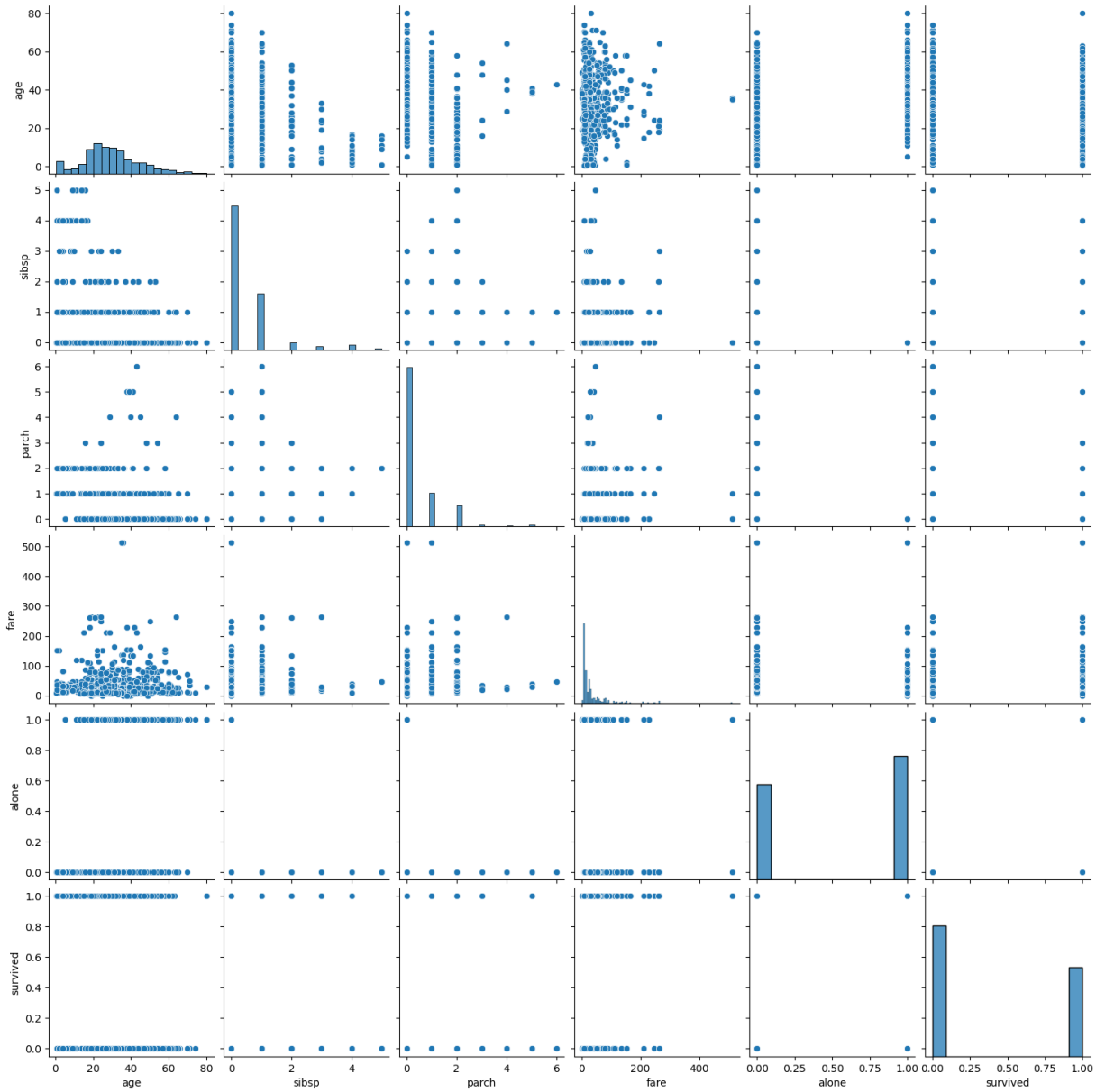
Out[8]:
```
<seaborn.axisgrid.JointGrid at 0x7f33c814eda0>
```



In [10…
```
df=df.dropna()
sns.pairplot(df)
```

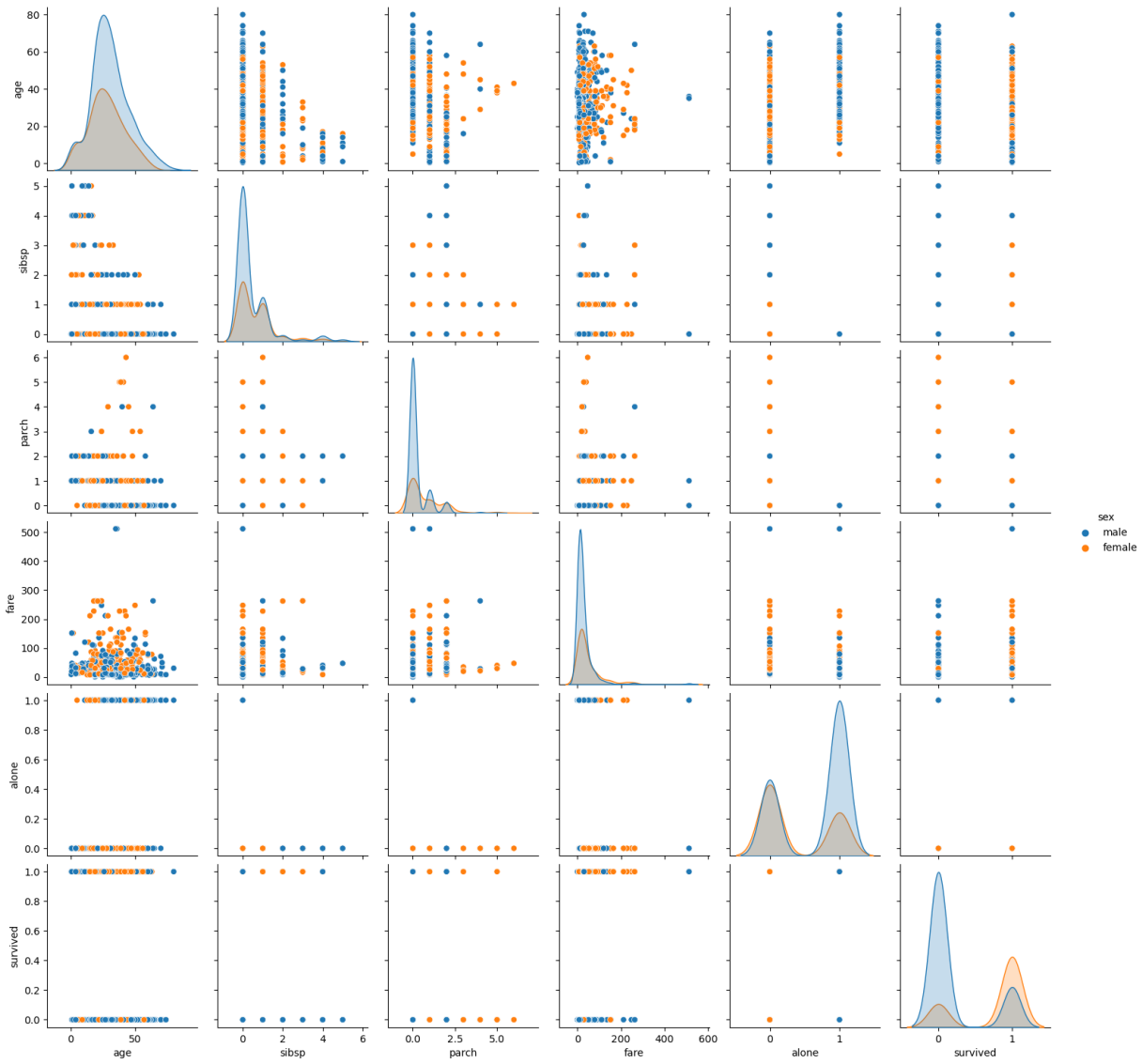
```
<__array_function__ internals>:180: RuntimeWarning: Converting input from bool to <class 'numpy.uint8'>
for compatibility.
```

Out[10]:
```
<seaborn.axisgrid.PairGrid at 0x7f33b98800d0>
```



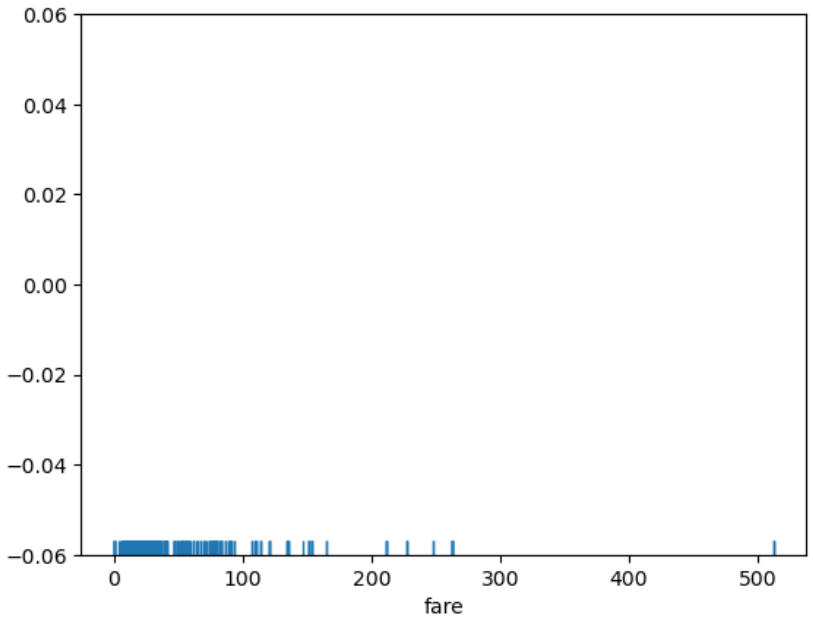
In [12…
```
sns.pairplot(df,hue="sex")
```

Out[12]:
```
<seaborn.axisgrid.PairGrid at 0x7f33b9ae13f0>
```



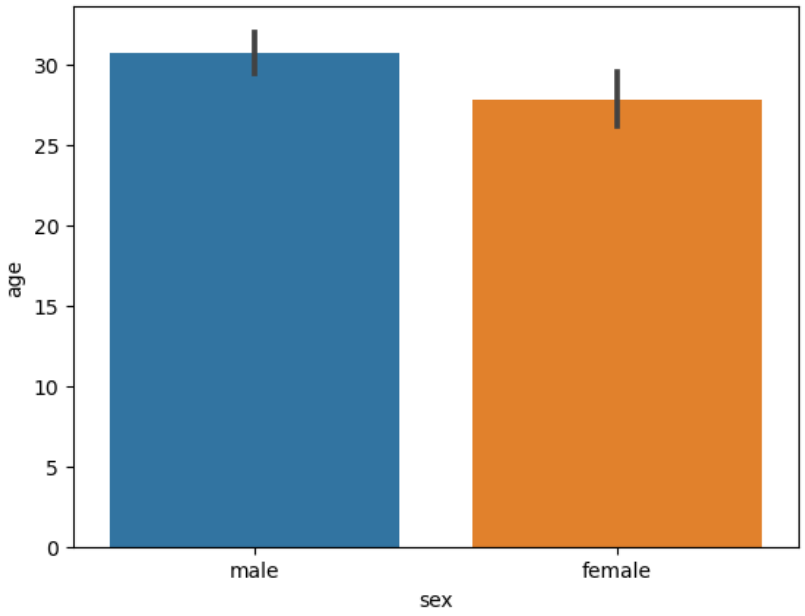
In [13…
```
sns.rugplot(df["fare"])
```

Out[13]:
```
<Axes: xlabel='fare'>
```



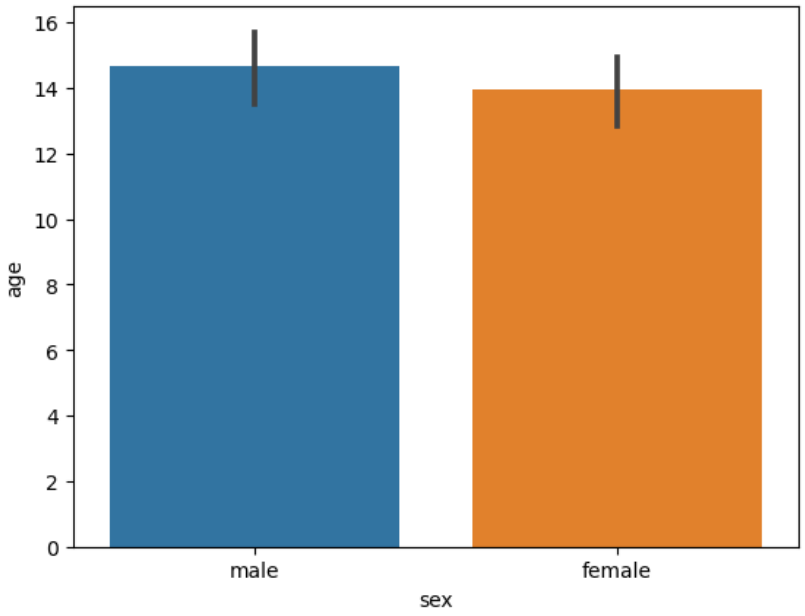
In [14…
```
sns.barplot(x='sex',y='age',data=df)
```

Out[14]:
```
<Axes: xlabel='sex', ylabel='age'>
```



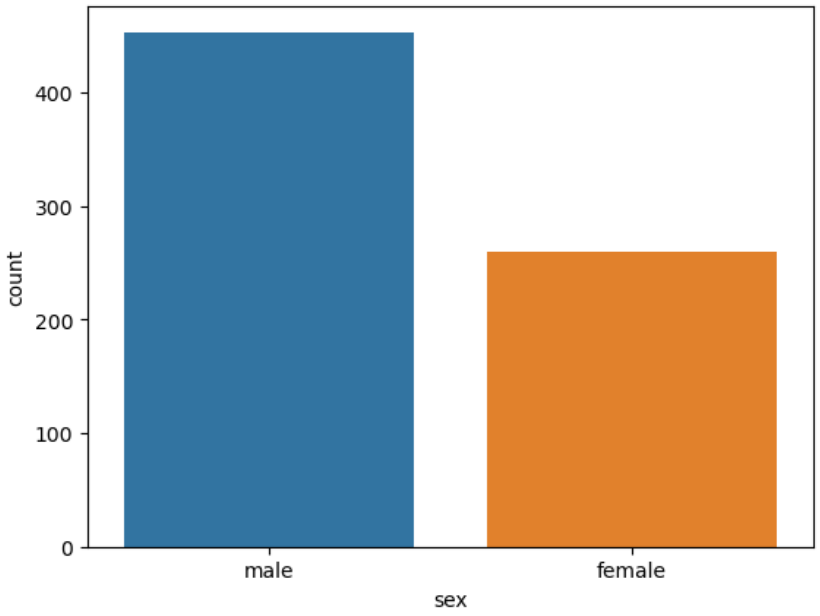
In [15…
```
sns.barplot(x='sex',y='age',data=df,estimator=np.std)
```

Out[15]:
```
<Axes: xlabel='sex', ylabel='age'>
```



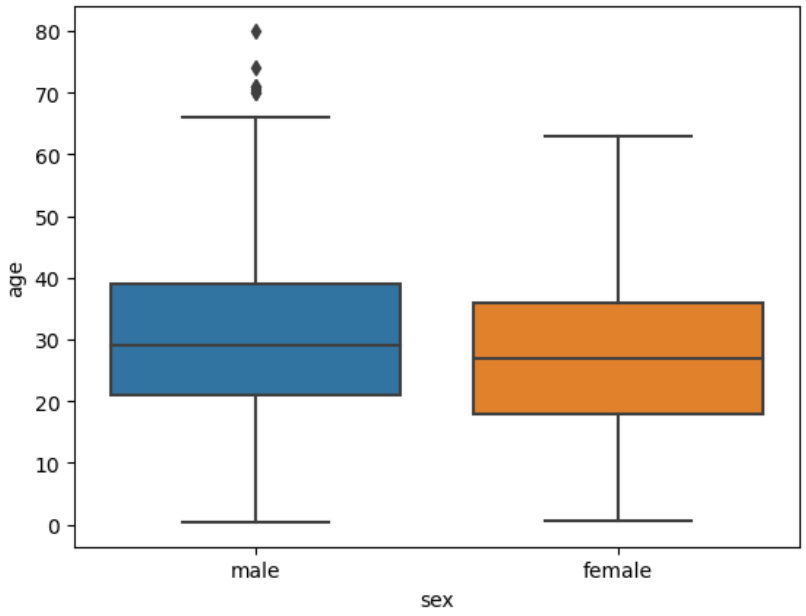
In [16…
```
sns.countplot(x='sex',data=df)
```

Out[16]:
```
<Axes: xlabel='sex', ylabel='count'>
```



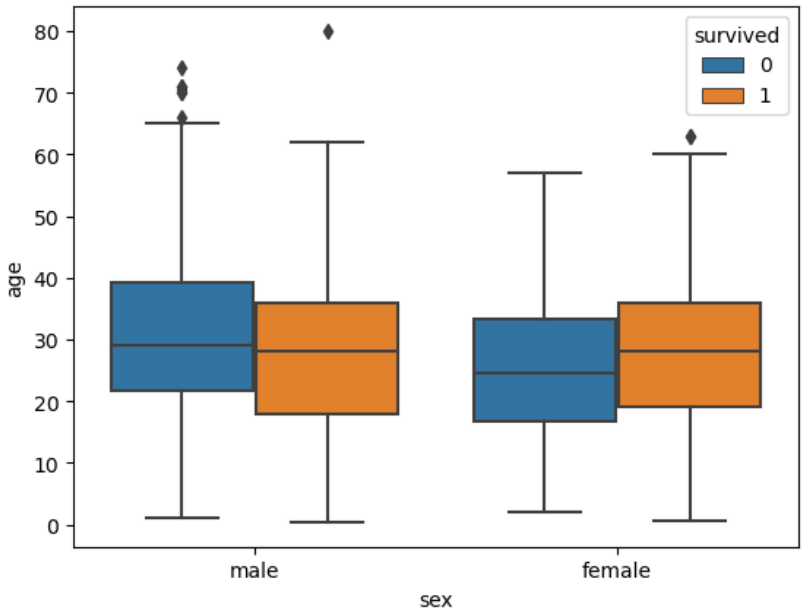
In [17…
```
sns.boxplot(x='sex',y='age',data=df)
```

Out[17]:
```
<Axes: xlabel='sex', ylabel='age'>
```



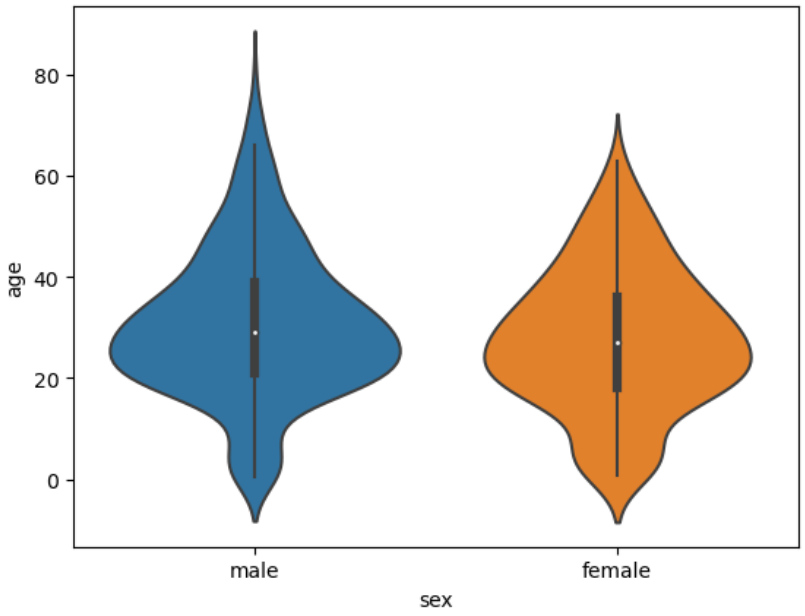
In [18…
```
sns.boxplot(x='sex',y='age',data=df,hue='survived')
```

Out[18]:
```
<Axes: xlabel='sex', ylabel='age'>
```



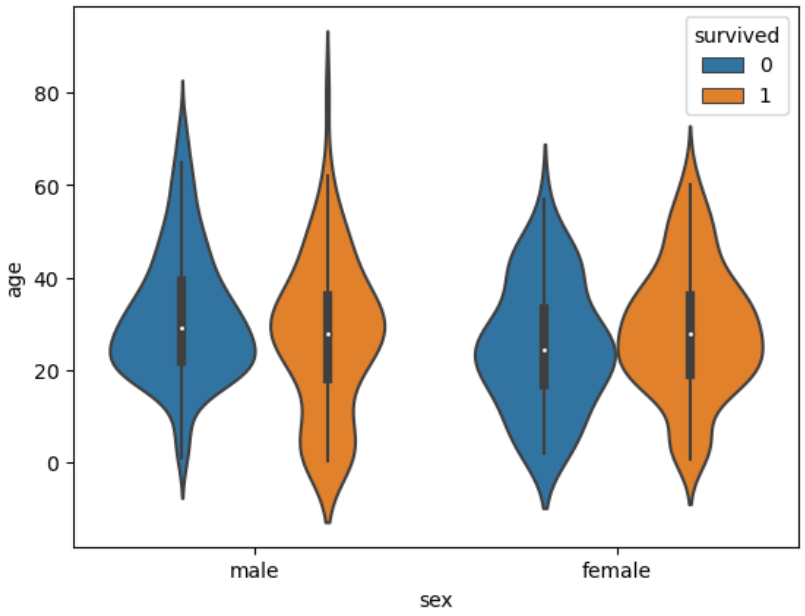
In [21…
```
sns.violinplot(x="sex",y="age",data=df)
```

Out[21]:
```
<Axes: xlabel='sex', ylabel='age'>
```



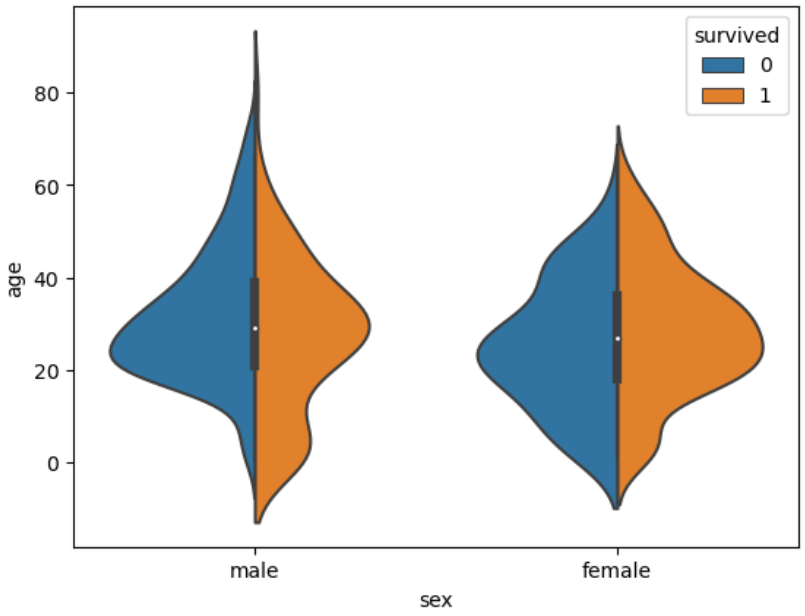
In [22…
```
sns.violinplot(x="sex",y="age",data=df,hue="survived")
```

Out[22]:
```
<Axes: xlabel='sex', ylabel='age'>
```



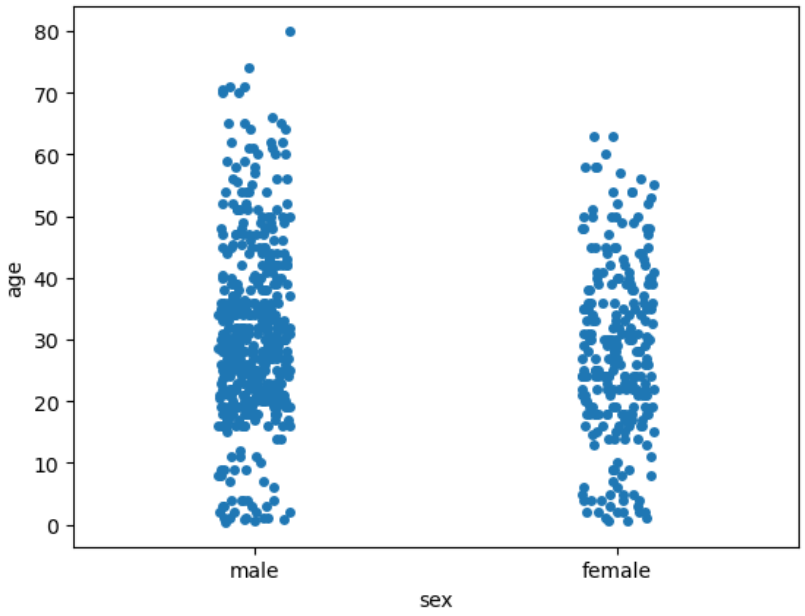
In [25…
```
sns.violinplot(x="sex",y="age",data=df,hue="survived",split=True)
```

Out[25]:
```
<Axes: xlabel='sex', ylabel='age'>
```



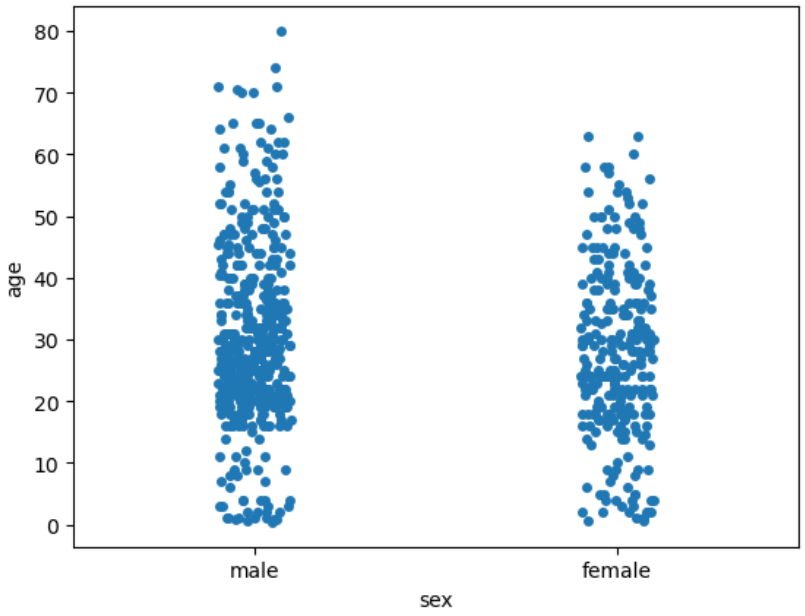
In [26…
```
sns.stripplot(x="sex",y="age",data=df)
```

Out[26]:
```
<Axes: xlabel='sex', ylabel='age'>
```



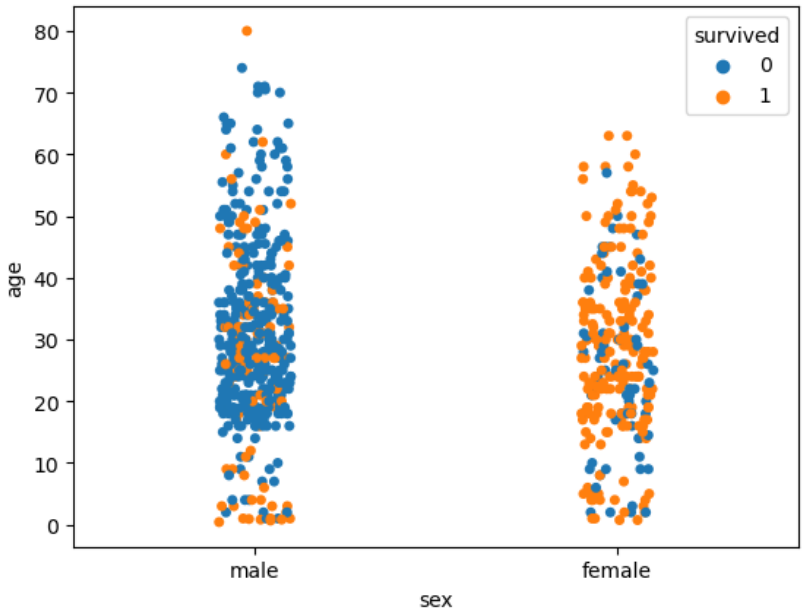
In [27…
```
sns.stripplot(x="sex",y="age",data=df,jitter=True)
```

Out[27]:
```
<Axes: xlabel='sex', ylabel='age'>
```



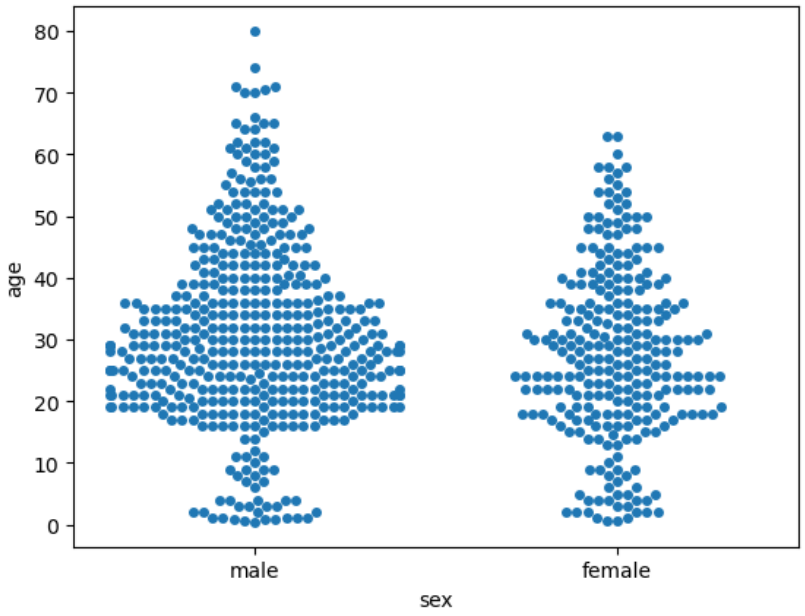
In [28…
```
sns.stripplot(x="sex",y="age",data=df,jitter=True,hue="survived")
```

Out[28]:
```
<Axes: xlabel='sex', ylabel='age'>
```



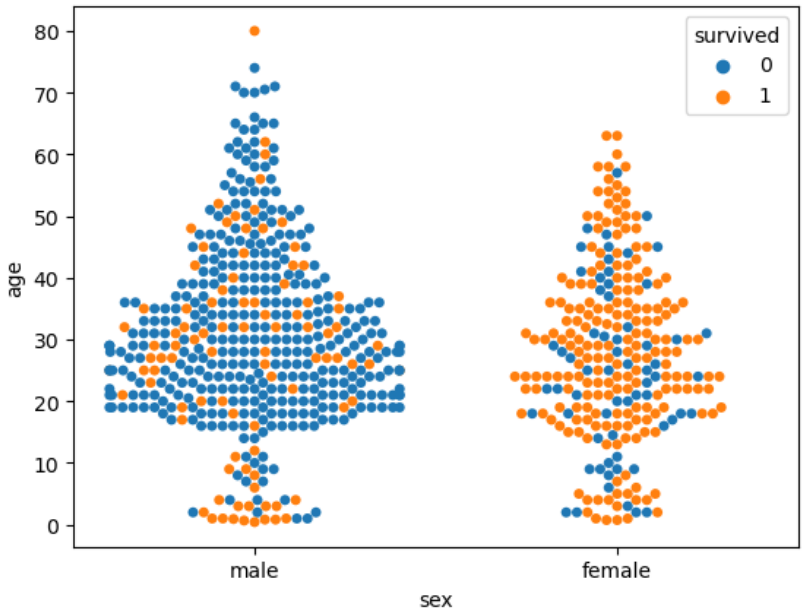
In [32…
```
sns.swarmplot(x='sex',y="age",data=df)
```

Out[32]:
```
<Axes: xlabel='sex', ylabel='age'>
```



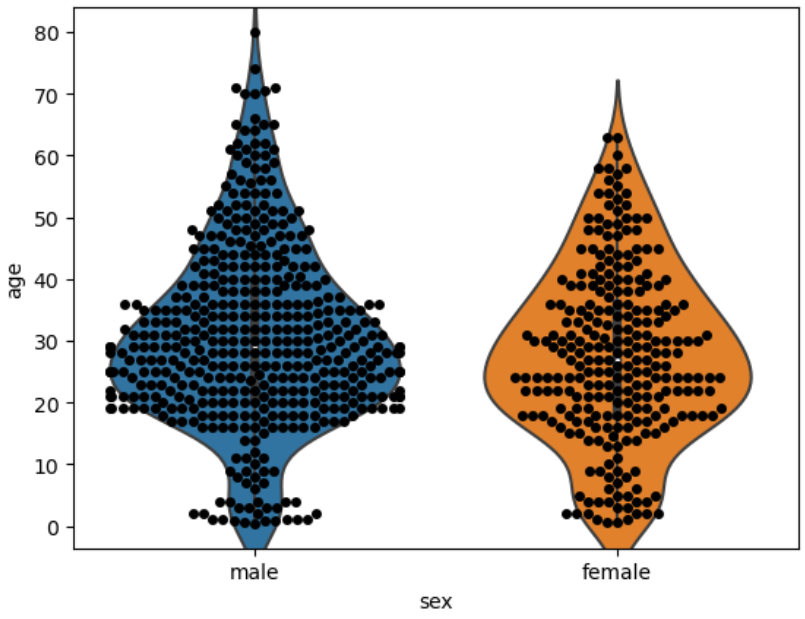
In [33…
```
sns.swarmplot(x='sex',y="age",data=df,hue="survived")
```

Out[33]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [35…
```
sns.violinplot(x='sex', y='age', data=df)
sns.swarmplot(x='sex', y='age', data=df, color='black')
```

Out[35]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [ ]: